

R PROGRAMMING

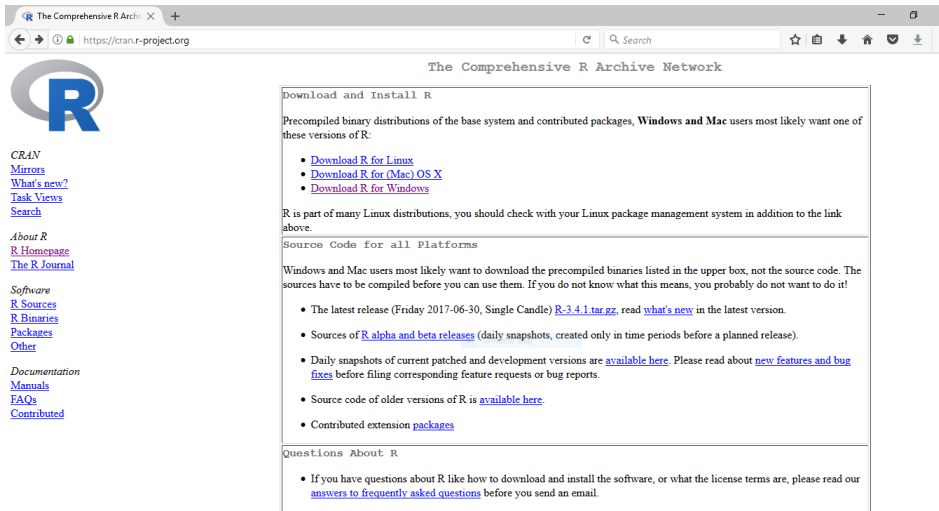
Prof. Ramesh Ragala

VIT University Chennai Campus

July 10, 2017

- Go to <http://cran.r-project.org>.

INSTALLATION OF R AND RSTUDIO



The screenshot shows a web browser window with the address bar displaying "https://cran.r-project.org". The page title is "The Comprehensive R Archive Network". The main content area is titled "Download and Install R" and contains the following text: "Precompiled binary distributions of the base system and contributed packages, **Windows and Mac** users most likely want one of these versions of R:" followed by a bulleted list of links: "Download R for Linux", "Download R for (Mac) OS X", and "Download R for Windows". Below this, it states "R is part of many Linux distributions, you should check with your Linux package management system in addition to the link above." The next section is "Source Code for all Platforms", which says "Windows and Mac users most likely want to download the precompiled binaries listed in the upper box, not the source code. The sources have to be compiled before you can use them. If you do not know what this means, you probably do not want to do it!" followed by a bulleted list: "The latest release (Friday 2017-06-30, Single Candle) [R-3.4.1.tar.gz](#), read [what's new](#) in the latest version.", "Sources of [R alpha and beta releases](#) (daily snapshots, created only in time periods before a planned release).", "Daily snapshots of current patched and development versions are [available here](#). Please read about [new features and bug fixes](#) before filing corresponding feature requests or bug reports.", "Source code of older versions of R is [available here](#).", and "Contributed extension [packages](#)". The final section is "Questions About R", which says "If you have questions about R like how to download and install the software, or what the license terms are, please read our [answers to frequently asked questions](#) before you send an email."

The Comprehensive R Archive Network

Download and Install R

Precompiled binary distributions of the base system and contributed packages, **Windows and Mac** users most likely want one of these versions of R:

- [Download R for Linux](#)
- [Download R for \(Mac\) OS X](#)
- [Download R for Windows](#)

R is part of many Linux distributions, you should check with your Linux package management system in addition to the link above.

Source Code for all Platforms

Windows and Mac users most likely want to download the precompiled binaries listed in the upper box, not the source code. The sources have to be compiled before you can use them. If you do not know what this means, you probably do not want to do it!

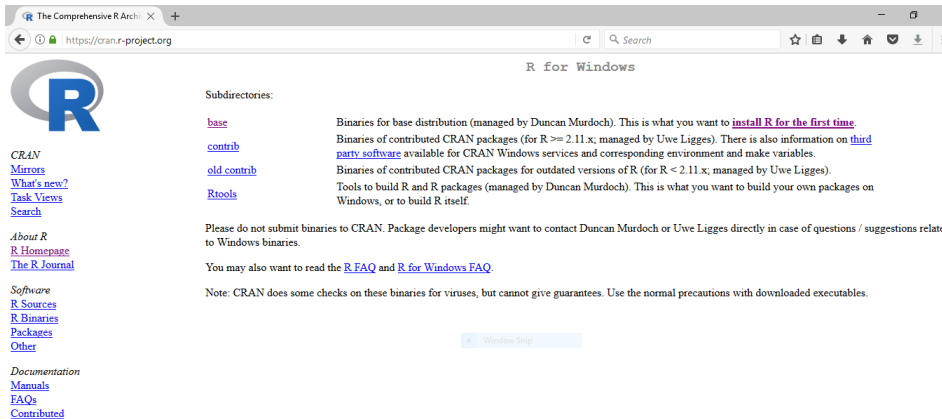
- The latest release (Friday 2017-06-30, Single Candle) [R-3.4.1.tar.gz](#), read [what's new](#) in the latest version.
- Sources of [R alpha and beta releases](#) (daily snapshots, created only in time periods before a planned release).
- Daily snapshots of current patched and development versions are [available here](#). Please read about [new features and bug fixes](#) before filing corresponding feature requests or bug reports.
- Source code of older versions of R is [available here](#).
- Contributed extension [packages](#)

Questions About R

- If you have questions about R like how to download and install the software, or what the license terms are, please read our [answers to frequently asked questions](#) before you send an email.

- Under "Download and Install R", click on the "Download R for Windows".

INSTALLATION OF R AND RSTUDIO



The screenshot shows a web browser window with the address bar displaying "https://cran.r-project.org". The page title is "The Comprehensive R Archive Network". The main content area is titled "R for Windows". On the left side, there is a large "R" logo and a list of links under the heading "CRAN". The links are: Mirrors, What's new?, Task Views, Search, About R, R Homepage, The R Journal, Software, R Sources, R Binaries, Packages, Other, Documentation, Manuals, FAQs, and Contributed. The main content area lists subdirectories: base, contrib, old contrib, and Rtools. Each subdirectory has a brief description of its contents. At the bottom of the page, there is a "Window Snip" button.

The Comprehensive R Archive Network

https://cran.r-project.org

R for Windows

Subdirectories:

- [base](#): Binaries for base distribution (managed by Duncan Murdoch). This is what you want to **install R for the first time**.
- [contrib](#): Binaries of contributed CRAN packages (for R >= 2.11.x; managed by Uwe Ligges). There is also information on [third party software](#) available for CRAN Windows services and corresponding environment and make variables.
- [old contrib](#): Binaries of contributed CRAN packages for outdated versions of R (for R < 2.11.x; managed by Uwe Ligges).
- [Rtools](#): Tools to build R and R packages (managed by Duncan Murdoch). This is what you want to build your own packages on Windows, or to build R itself.

Please do not submit binaries to CRAN. Package developers might want to contact Duncan Murdoch or Uwe Ligges directly in case of questions / suggestions related to Windows binaries.

You may also want to read the [R FAQ](#) and [R for Windows FAQ](#).

Note: CRAN does some checks on these binaries for viruses, but cannot give guarantees. Use the normal precautions with downloaded executables.

Window Snip

- click on the "base" link.
- On the next page, you should see a link saying something like "Download R 3.4.1 for Windows"

INSTALLATION OF R AND RSTUDIO



The Comprehensive R Archive Network

https://cran.r-project.org

R-3.4.1 for Windows (32/64 bit)

[Download R 3.4.1 for Windows](#) (62 megabytes, 32/64 bit)

[Installation and other instructions](#)

[New features in this version](#)

If you want to double-check that the package you have downloaded matches the package distributed by CRAN, you can compare the [md5sum](#) of the .exe to the [fingerprint](#) on the master server. You will need a version of md5sum for windows: both [graphical](#) and [command line versions](#) are available.

Frequently asked questions

- [Does R run under my version of Windows?](#)
- [How do I update packages in my previous version of R?](#)
- [Should I run 32-bit or 64-bit R?](#)

Please see the [R FAQ](#) for general information about R and the [R Windows FAQ](#) for Windows-specific information.

Other builds

- Patches to this release are incorporated in the [r-patched snapshot build](#).
- A build of the development version (which will eventually become the next major release of R) is available in the [r-devel snapshot build](#).
- [Previous releases](#)

Note to webmasters: A stable link which will redirect to the current Windows binary release is [<CRAN MIRROR>/bin/windows/base/release.htm](#).

Last change: 2017-06-30, by Duncan Murdoch

CRAN

- [Mirrors](#)
- [What's new?](#)
- [Task Views](#)
- [Search](#)

About R

- [R Homepage](#)
- [The R Journal](#)

Software

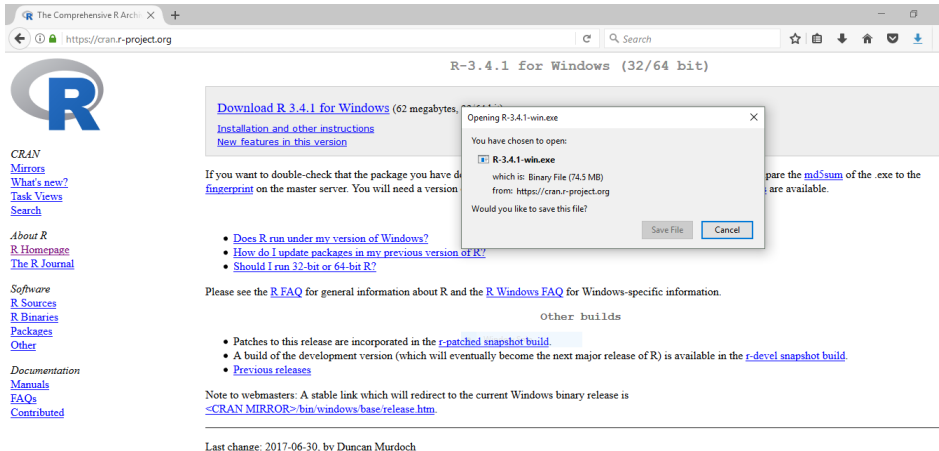
- [R Sources](#)
- [R Binaries](#)
- [Packages](#)
- [Other](#)

Documentation

- [Manuals](#)
- [FAQs](#)
- [Contributed](#)

- click on the "Download R 3.4.1 for Windows " link.
- It will ask if you want to save or run a file "R-3.4.1-win.exe".
- Choose "Save" and save the file on the Desktop.
- Then double-click on the icon for the file to run it.

INSTALLATION OF R AND RSTUDIO



The screenshot shows the CRAN website for R 3.4.1. The browser address bar shows <https://cran.r-project.org>. The page title is "R-3.4.1 for Windows (32/64 bit)". The main content area has a large "R" logo and a "Download R 3.4.1 for Windows (62 megabytes)" link. Below this are links for "Installation and other instructions" and "New features in this version". A text block says: "If you want to double-check that the package you have downloaded is the same as the one on the master server, you will need a version of the [fingerprint](#) on the master server. You will need a version of the [md5sum](#) of the .exe to the are available."

On the left sidebar, there are links for "CRAN", "Mirrors", "What's new?", "Task Views", "Search", "About R", "R Homepage", "The R Journal", "Software", "R Sources", "R Binaries", "Packages", "Other", "Documentation", "Manuals", "FAQs", and "Contributed".

A dialog box titled "Opening R-3.4.1-win.exe" is open in the foreground. It says: "You have chosen to open: R-3.4.1-win.exe which is: Binary File (74.5 MB) from: <https://cran.r-project.org> Would you like to save this file?". There are "Save File" and "Cancel" buttons.

Below the dialog box, there is a list of links: "Does R run under my version of Windows?", "How do I update packages in my previous version of R?", and "Should I run 32-bit or 64-bit R?".

Below the list, there is a text block: "Please see the [R FAQ](#) for general information about R, and the [R Windows FAQ](#) for Windows-specific information."

Below the text block, there is a section titled "Other builds" with a list of links: "Patches to this release are incorporated in the [r-patched snapshot build](#)", "A build of the development version (which will eventually become the next major release of R) is available in the [r-devel snapshot build](#)", and "Previous releases".

Below the list, there is a text block: "Note to webmasters: A stable link which will redirect to the current Windows binary release is [<CRAN MIRROR>/bin/windows/base/release.htm](#)."

At the bottom, there is a text block: "Last change: 2017-06-30, by Duncan Murdoch"

INSTALLATION OF R AND RSTUDIO

The Comprehensive R Archive Network

https://cran.r-project.org

R-3.4.1 for Windows (32/64 bit)

Enter name of file to save to...

File name: R-3.4.1-win.exe

Save as type: Binary File (*.exe)

Save Cancel

CRAN

[Down](#)

[Install](#)

[New fe](#)

If you want to compare the [md5sum](#) of the .exe to the [versions](#) are available.

[About R](#)

[R Homepage](#)

[The R Journal](#)

[Software](#)

[R Sources](#)

[R Binaries](#)

[Packages](#)

[Other](#)

[Documentation](#)

[Manuals](#)

[FAQs](#)

[Contributed](#)

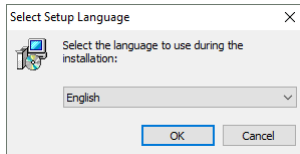
Last change: 2017-06-30, by Duncan Murdoch

you can compare the [md5sum](#) of the .exe to the [versions](#) are available.

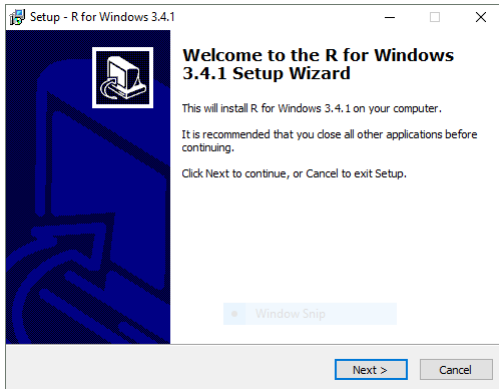
in the [r-devel snapshot build](#).

- double-click on the R-3.4.1.exe file to run it
- choose English.

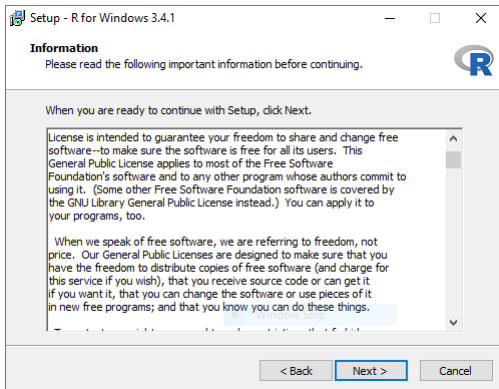
INSTALLATION OF R AND RSTUDIO



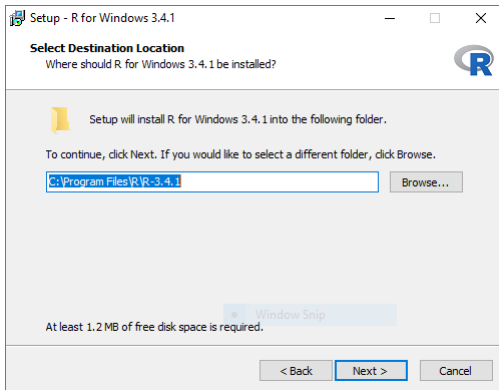
INSTALLATION OF R AND RSTUDIO



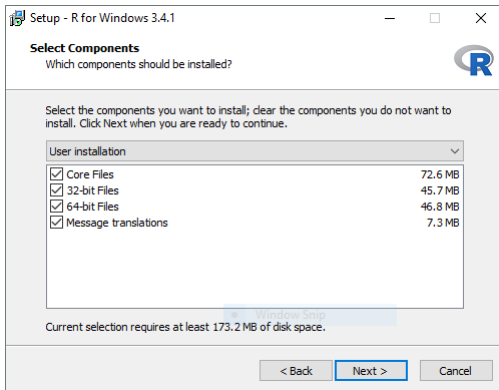
INSTALLATION OF R AND RSTUDIO

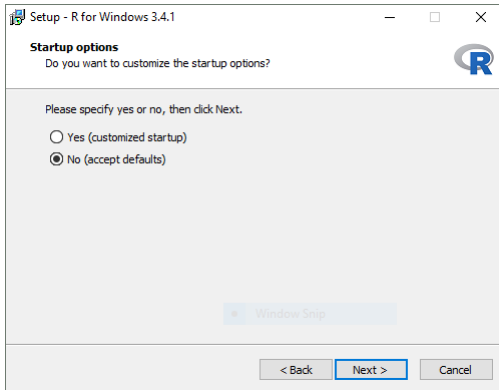


INSTALLATION OF R AND RSTUDIO

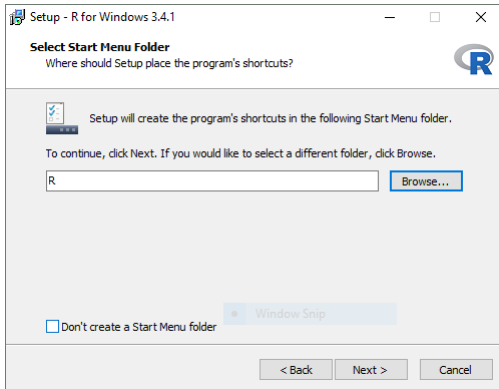


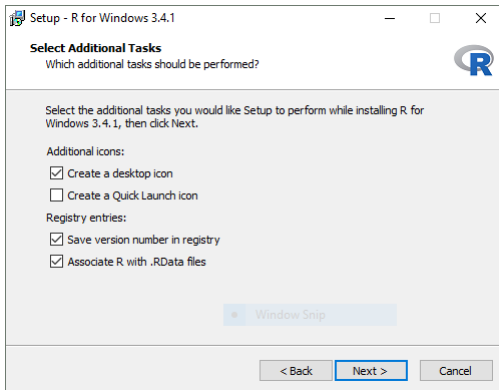
INSTALLATION OF R AND RSTUDIO



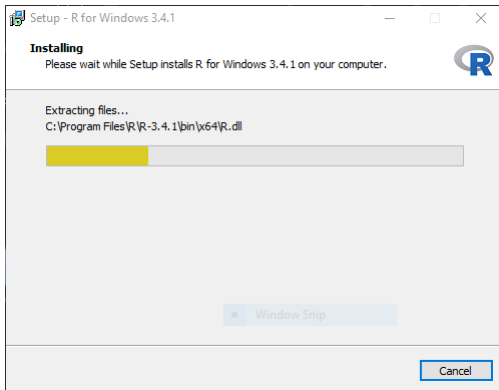


INSTALLATION OF R AND RSTUDIO





INSTALLATION OF R AND RSTUDIO



- **R Installation is Over**

- **Installation of RStudio**

- Open <http://www.google.com>
- type RStudio in search box

INSTALLATION OF R AND RSTUDIO

RStudio - Google Search

https://www.google.com/search?q=RStudio&ie=utf-8&oe=utf-8&client=firefox-b

Google RStudio

All Books Images Videos News More Settings Tools

About 3,810,000 results (0.48 seconds)

RStudio – Open source and enterprise-ready professional software for R
<https://www.rstudio.com/>
RStudio. Open source and enterprise-ready professional software for R. Download RStudio. Discover Shiny. shinyapps.io Login. Discover RStudio Connect.

Results from rstudio.com

Download RStudio
RStudio is a set of integrated tools designed to help you be ...

RStudio Server
Server. Centralize access and computation. RStudio Server.

R Packages
The RStudio team contributes code to many R packages and ...

Pricing
RStudio Server Pro and Commercial Desktop Pricing

Online Learning
Online learning. A wealth of tutorials, articles, and examples ...

About
The technology to amass data exceeds our abilities to make ...

RStudio - Wikipedia
<https://en.wikipedia.org/wiki/RStudio>
RStudio is a free and open-source integrated development environment (IDE) for R, a programming language for statistical computing and graphics. RStudio ...

Written in: [Java](#), [C++](#), [JavaScript](#) License: [Affero General Public License v3](#)
Developer(s): RStudio, Inc Stable release: 1.0.136 / 21 December 2016; 5 ...

- Click on "Download Rstudio"

INSTALLATION OF R AND RSTUDIO

RStudio - Google Search

https://www.google.com/search?q=RStudio&ie=utf-8&oe=utf-8&client=firefox-b

Google RStudio

All Books Images Videos News More Settings Tools

About 3,810,000 results (0.48 seconds)

RStudio – Open source and enterprise-ready professional software for R
<https://www.rstudio.com/>
RStudio. Open source and enterprise-ready professional software for R. Download RStudio. Discover Shiny. shinyapps.io Login. Discover RStudio Connect.

Results from rstudio.com

Download RStudio RStudio is a set of integrated tools designed to help you be ...	Pricing RStudio Server Pro and Commercial Desktop Pricing
RStudio Server Server. Centralize access and computation. RStudio Server.	Online Learning Online learning. A wealth of tutorials, articles, and examples ...
R Packages The RStudio team contributes code to many R packages and ...	About The technology to amass data exceeds our abilities to make ...

RStudio - Wikipedia
<https://en.wikipedia.org/wiki/RStudio>
RStudio is a free and open-source integrated development environment (IDE) for R, a programming language for statistical computing and graphics. RStudio ...

Written in: [Java](#), [C++](#), [JavaScript](#) License: [Affero General Public License v3](#)
Developer(s): RStudio, Inc Stable release: 1.0.136 / 21 December 2016; 5 ...

- Check "RStudio Desktop Open Source License"
- scroll down to see " FREE and Download"
- Click on "Download"

INSTALLATION OF R AND RSTUDIO

Download RStudio - RStudio X +

https://www.rstudio.com/products/rstudio/download/

tools for getting started with R
rstudio::conf

Products Resources Pricing About Us Blogs

	RStudio Desktop Open Source License	RStudio Desktop Commercial License	RStudio Server Open Source License	RStudio Server Pro Commercial License	RStudio Server Pro + RStudio Connect Commercial License
	FREE	\$995 per year	FREE	\$9,995 per year	\$29,995 per year
Integrated Tools for R	●	●	●	●	●
Priority Support		●		●	●
Access via Web Browser			● Window Snap	●	●
Enterprise Security				●	●
Project Sharing				●	●
Manage Multiple R Sessions & Versions				●	●

INSTALLATION OF R AND RSTUDIO

Download RStudio - RStudio X +

https://www.rstudio.com/products/rstudio/download/

Admin Dashboard

Load Balancing

Push-Button Publishing

Self-Managed Content

Scheduled Updates & Distribution

License	AGPL	Commercial	AGPL	Commercial	Commercial
Pricing	FREE	\$995/yr	FREE	\$9,995/yr	\$29,995/yr

DOWNLOAD
Learn More

BUY NOW
Learn More

DOWNLOAD
Learn More

DOWNLOAD
Learn More

CONTACT SALES
Learn More about RStudio Connect

Have Questions?

Waiting for d.adroll.com...

- It refers to **SALES TEAM**
- Under **Installer** section, we are able to find "RStudio 1.0.143 - Windows Vista/7/8/10 "
- Click to "Download" and save on desktop

INSTALLATION OF R AND RStudio



Download RStudio – RStudio

https://www.rstudio.com/products/rstudio/download/

Search

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TALK TO THE SALES TEAM

RStudio Desktop 1.0.143 — Release Notes

RStudio requires R 2.11.1+. If you don't already have R, download it [here](#).

Installers for Supported Platforms

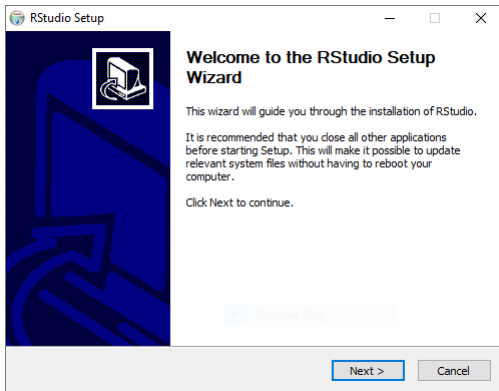
Installers	Size	Date	MD5
RStudio 1.0.143 - Windows Vista/7/8/10	81.9 MB	2017-04-19	76bb84296b9202759b3eb1de555a2231
RStudio 1.0.143 - Mac OS X 10.6+ (64-bit)	71.2 MB	2017-04-19	c7f1ed865428b225b202fdd1b431954b4
RStudio 1.0.143 - Ubuntu 12.04+/Debian 8+ (32-bit)	80.0 MB	2017-04-19	21ca14bffc0c1a2361ead2d763d0313d
RStudio 1.0.143 - Ubuntu 12.04+/Debian 8+ (64-bit)	92.1 MB	2017-04-19	75761eae209158d8415d562b3771fbec
RStudio 1.0.143 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (32-bit)	84.7 MB	2017-04-19	2c356d4ee50667ad4042ee196afb3c53
RStudio 1.0.143 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (64-bit)	85.7 MB	2017-04-19	7ab5fc240351debe491c6c5a7acb6068

Zip/Tarballs

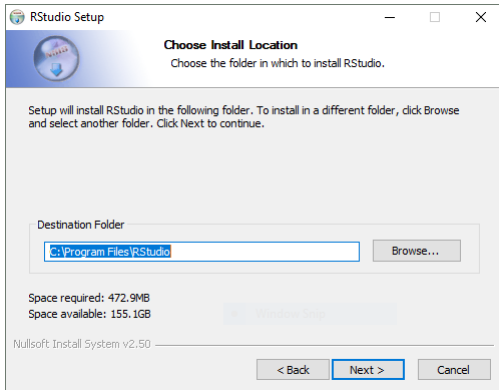
Zip/tar archives	Size	Date	MD5
RStudio 1.0.143 - Windows Vista/7/8/10	117.6 MB	2017-04-19	24ae8674ba0cc0c5310c8172f2e5f12e
RStudio 1.0.143 - Ubuntu 12.04+/Debian 8+ (32-bit)	86.2 MB	2017-04-19	c4444d8159463b8e7a950ba4fe7150e0
RStudio 1.0.143 - Ubuntu 12.04+/Debian 8+ (64-bit)	93.2 MB	2017-04-19	c92ecfdb80432a6532c823a22630918b
RStudio 1.0.143 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (32-bit)	85.4 MB	2017-04-19	197280b1c10edae0bacf898a14d9a58f
RStudio 1.0.143 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (64-bit)	86.6 MB	2017-04-19	04afcc818259577c188097955336cae2

- **Download is Over**
- **Double Click on RStudio-1.0.1-43.exe file**

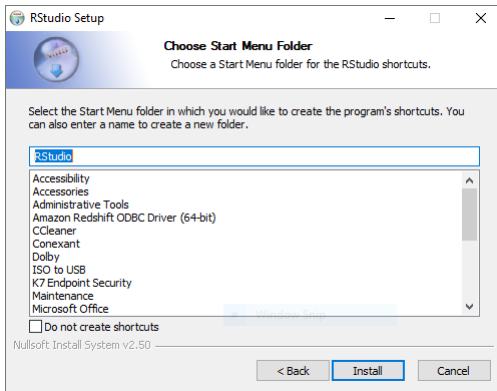
INSTALLATION OF R AND RSTUDIO



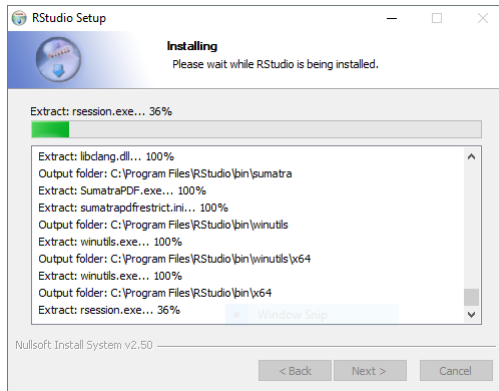
INSTALLATION OF R AND RSTUDIO



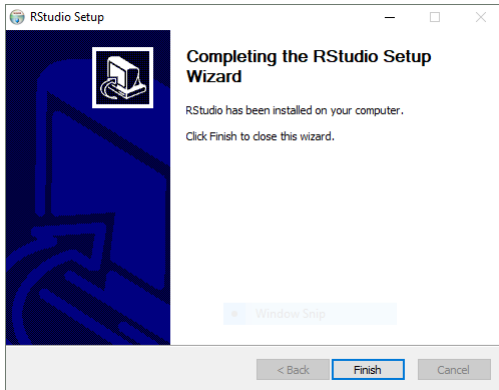
INSTALLATION OF R AND RSTUDIO



INSTALLATION OF R AND RSTUDIO



INSTALLATION OF R AND RSTUDIO



**THANK
YOU!**

